11-88) PRES. by NWS Instruc	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ction 10-924) NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA) WFO Jackson, Mississippi		
MONTHLY	REPORT OF HYDROLOGIC CONDITIONS	REPORT FOR: MONTH YEAR June 2015		
TO:	Hydrometeorological Information Center, W/OH2 NOAA / National Weather Service	SIGNATURE Alan E. Gerard, Meteorologist In-Charge		
	1325 East West Highway, Room 7230 Silver Spring, MD 20910-3283	DATE 6/22/2015		

Synopsis...

June of 2015 was a rather warm month this year and averaged slightly above normal temperatures at all ASOSs (Automated Surface Observing Systems) within the Jackson HSA (Hydrologic Service Area). All ASOSs recorded between 0.7 to 1.8 degrees above normal June temperatures. In regards to precipitation, the HSA was split between normal values. Greenville and Greenwood received more than two inches below normal rainfall, while Jackson and Vicksburg received more than 1.5 inches above normal. Meridian and Hattiesburg both fell close to normal values.

To begin the monthly weather highlights, the month of June started out with a frontal boundary drifting across the region and dropping rainfall mostly within the eastern two-thirds of the HSA. Amounts of one to two inches were seen scattered throughout this area. Following this system, high pressure then settled into the South, and the remainder of the first week of June was mild and quite uneventful.

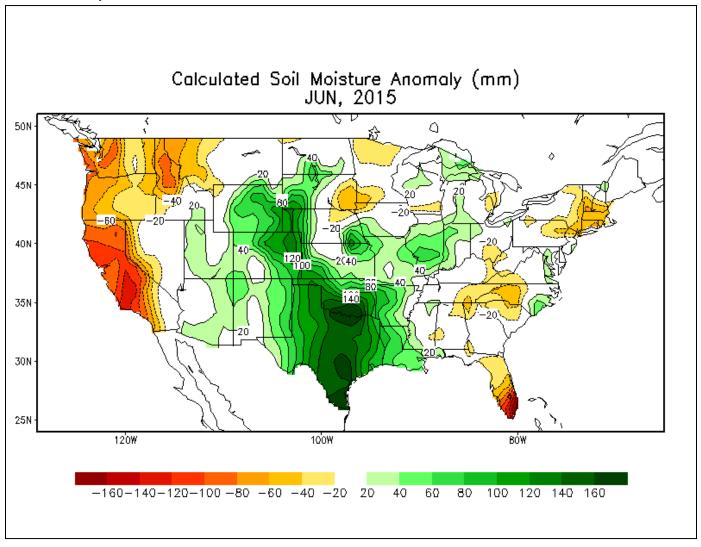
On the 8th, as the high pressure began to break down, isolated, afternoon showers and storms started to pop up. This pattern continued as the surface flow returned to a more southerly direction and regional moisture increased to typical summer values.

On the 18th, Tropical Storm Bill downsized to Tropical Depression Bill and continued to move north-northeastward into Oklahoma and Arkansas. Bill drew in all surrounding moisture and dumped it on Oklahoma and Arkansas, hindering any considerable convection within the HSA. As TD Bill traveled through the Ohio River Valley on the 20th and 21st, many of our northern counties received a small amount of rainfall from one of Bill's far-reaching rain bands, up to a half inch in some locations.

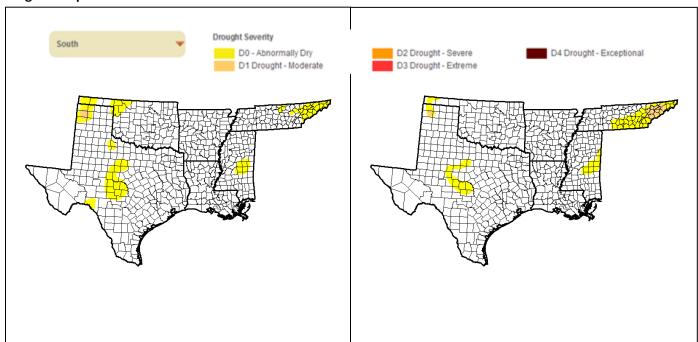
As TD Bill moved north and dissipated, the remainder of that week featured return flow from the Gulf of Mexico, paired with afternoon showers and storms again. Then, on the 28th, an anomalous cold front pushed through the region and brought some welcome relief to the HSA in terms of heat and humidity. Rain associated with this front fell mostly south of I-20 and in amounts of less than one inch. On the last day of the month, scattered showers began again in the region and dropped isolated amounts of up to three inches in East Mississippi and Northeast Louisiana.

River and Soil Conditions

Soil Moisture Map:



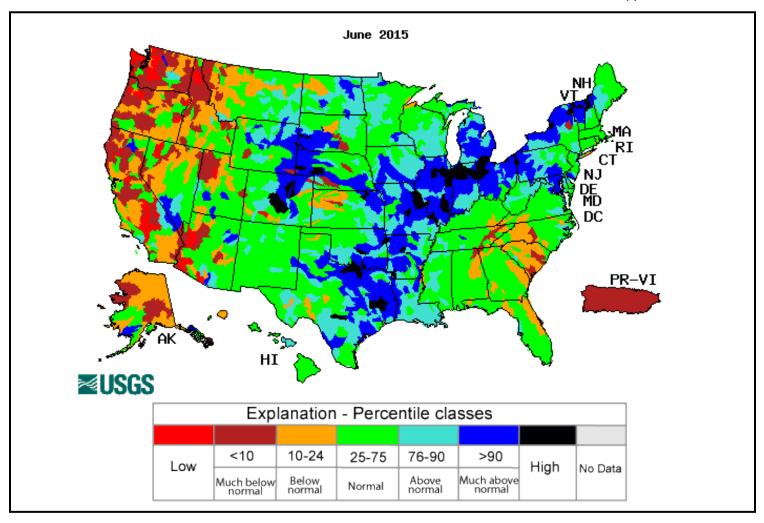
Drought Comparison:



June 1, 2015 July 1, 2015

Streamflow:

The United States Geological Survey's (USGS) June 2015 river streamflow records were compared with all historical June streamflow records. The average streamflow for June was above to much above normal for river basins in Northeast Louisiana and Southeast Arkansas. Normal to above normal streamflow was observed across Mississippi.



River Conditions:

Minor flooding continued from the previous month on the Big Black River at West and then transitioned downstream to the Big Black at Bentonia for a few more days, ending on the 6th. For the conditions of the Mississippi River from Arkansas City to Natchez, refer to the hydrographs on the next page.

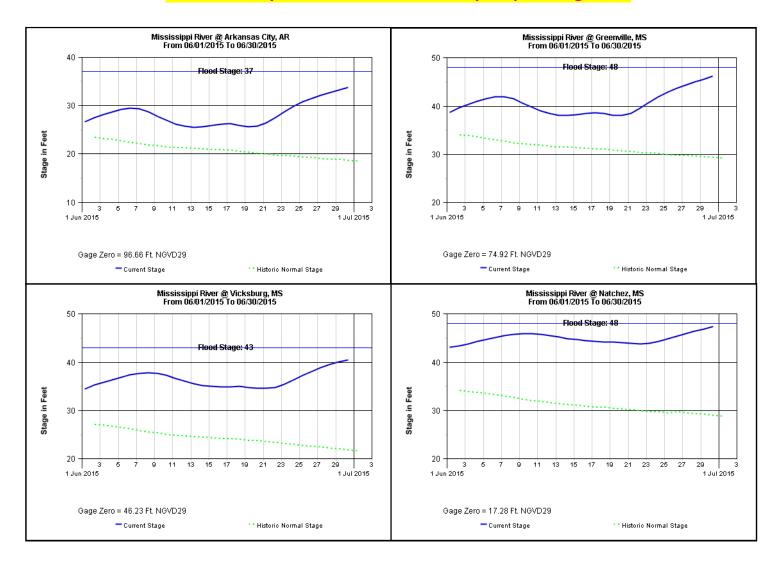
Climatic Outlook and Flood Potential:

The climatic outlook shows equal chances for above, below, and normal temperatures over the next three months for the entire HSA. In regards to precipitation, the outlook shows equal chances for above, below, and normal precipitation over the next three months for the northwest half of the HSA and below normal rainfall for the southeast half of the HSA. Thus, based on current soil moisture, streamflow, and the 3-month weather outlook, the flood potentials are as follows:

Pearl River System: Normal.
Yazoo River System: Normal.
Big Black River System: Normal.
Homochitto River System: Normal.
Pascagoula River System: Below normal.
Northeast LA and Southeast AR: Normal.
Tombigbee River System: Normal.

Mississippi River: Above normal.

Mississippi River Plots June 2015 Plots Courtesy of the United States Army Corps of Engineers



Monthly Preliminary High and Low Stages:

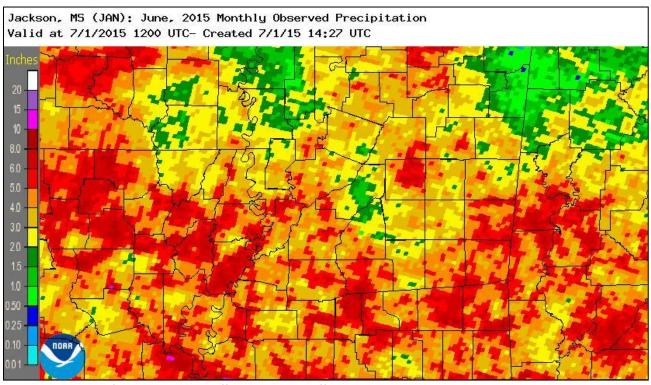
Location	Flood Stage (ft)	High Stage (ft)	Date	Low Stage (ft)	Date
Arkansas City	37	33.75	6/30	25.52	6/13
Greenville	48	46.22	6/30	38.07	6/14
Vicksburg	43	40.53	6/30	34.57	6/01
Natchez	48	47.43	6/30	43.09	6/01

Rainfall for the Month of June

The largest rainfall amounts in the HSA from NWS Cooperative Observer reports during the period from 7 am on May 31st until 7 am on Jun 30th were: 8.02 inches at Red River L&D 1, LA; 7.34 inches at Jonesville L&D, LA; 7.03 inches at Dermott, AR; 6.96 inches at Brookhaven, MS; 5.99 inches at Yazoo City, MS; 5.51 inches at Monticello, MS; and 5.32 inches at Rayville, LA

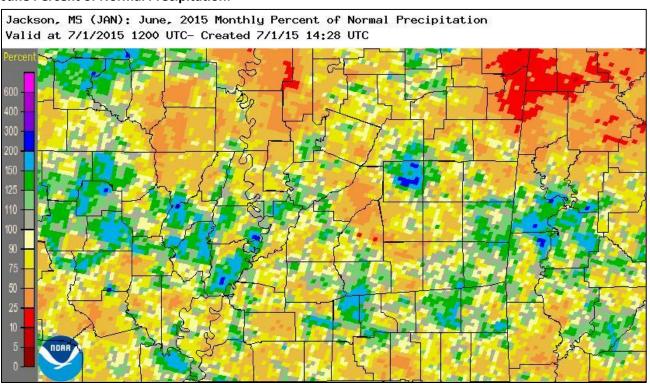
Some lowest rainfall amounts: 0.84 inches at Columbus, MS; 0.86 inches at Cleveland, MS; 1.52 inches at Crossett, AR; 1.62 inches at Canton, MS; and 2.12 inches at Crawford, MS.

June Rainfall Estimates:



Note: Observer rainfall and MPE June differ due to time differences.

June Percent of Normal Precipitation:



Note: Observer rainfall and MPE June differ due to time differences.

June Rainfall for Selected Cities:

City (Airport)	Rainfall	Departure from Normal	2015 Rainfall	2015 Departure from Normal
Jackson (KJAN)	6.44	+2.32	34.72	+6.49
Meridian (KMEI)	4.97	+0.57	28.03	-1.80
Greenville (KGLH)	1.52	-2.52	21.49	-6.81
Greenwood (KGWO)	2.29	-2.02	30.22	+2.58
Hattiesburg (KHBG)	4.73	-0.77	28.55	-3.49
Vicksburg (KTVR)	5.25	+1.26	35.52	+6.23

Total Flood Warning products issued: 5
Total Flood Statement products issued: 56

Total Flood Advisories MS River: 13

Daily Climate and Ag WX Products (AGO'S) issued: 30 Daily CoCoRaHS Rainfall Products (LCO'S) issued: 30 Daily River and Lake Summary Products (RVD'S) issued: 30

Marty V. Pope Service Hydrologist & Anna Weber Assistant Hydrologist/ Meteorologist-Intern

Note: Provisional stage and precipitation data were furnished with the cooperation of the Mississippi, Louisiana, and Arkansas National Weather Service Cooperative Observer Programs, United States Geological Survey (USGS), United States Army Corps of Engineers (USACE), Pearl River Valley Water Supply District (PRVWSD), Pat Harrison Waterway District, Pearl River Basin Development District, and the Mississippi Department of Environmental Quality.

cc: USGS Little Rock District
USGS Ruston District
USACE Mobile District
USACE Vicksburg District
USACE Mississippi Valley Division
USGS Mississippi District
SRH Climate, Weather and Water Division
Lower Mississippi River Forecast Center
Pearl River Valley Water Supply District
Hydrologic Information Center
Southern Region Climate Center
Pat Harrison Waterway District
Pearl River Basin Development District